

OPERATING INSTRUCTIONS AND PARTS LIST FOR

PAOLN/0/05455

CATALOG NUMBER

4611



MILWAUKEE ELECTRIC TOOL CORP.

AC ALTERNATOR

DEPENDABLE POWER

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION AS SHOWN IN THIS LIST:

1. M.E.T.C.O. PART NUMBER	3. M.E.T.C.O. CAT. NO. 4611
2. The PART NAME	4. The NAME of Item: AC ALTERNATOR
5. STARTING SERIAL NO. _____	

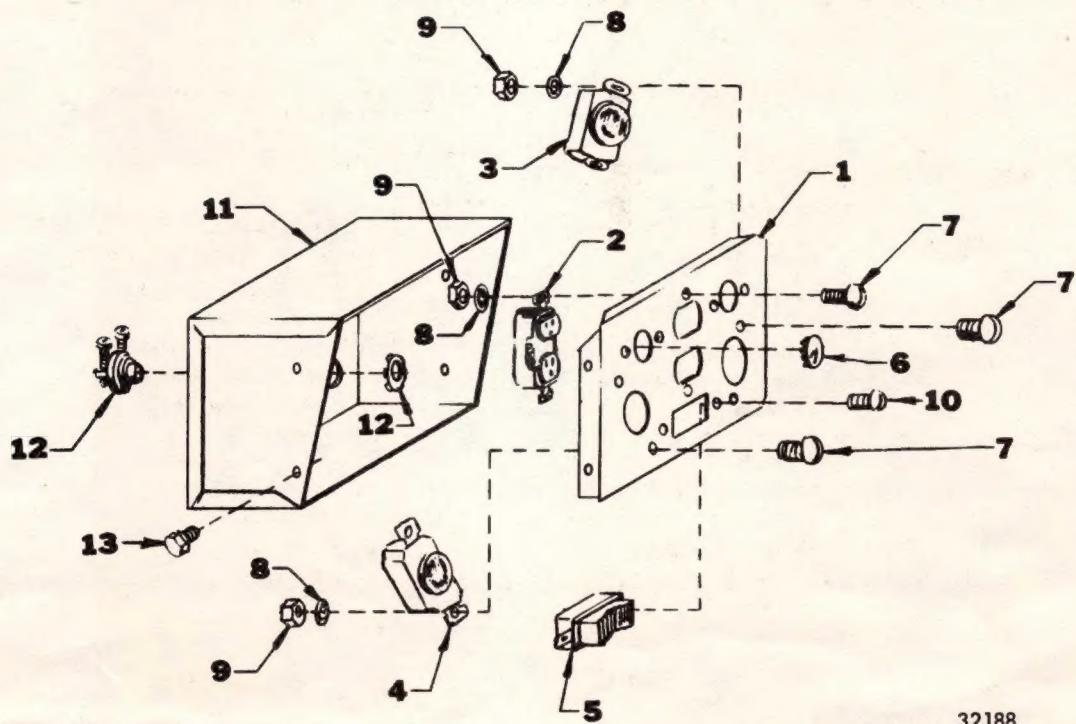
**MILWAUKEE ELECTRIC TOOL CORPORATION
13135 WEST LISBON ROAD
BROOKFIELD, WISCONSIN**

Printed in USA-100

IMPORTANT . . . SAVE THIS FOR FUTURE REFERENCE

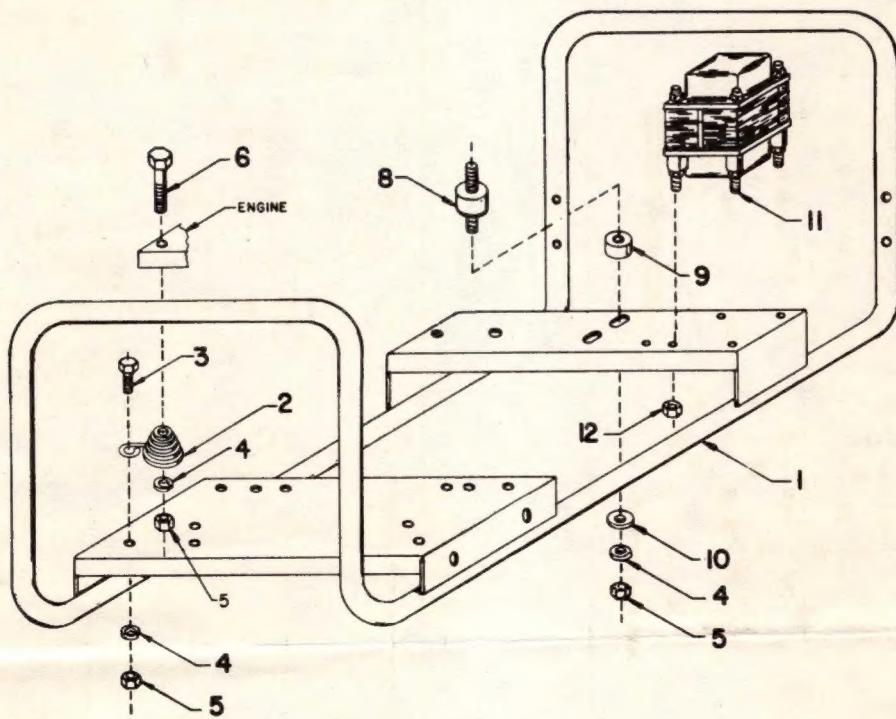
**FULL LOAD WATTS
OF
MILWAUKEE ELECTRIC TOOLS**

MODEL NO.	FULL LOAD WATTS	FULL LOAD AMPS	MODEL NO.	FULL LOAD WATTS	FULL LOAD AMPS	MODEL NO.	FULL LOAD WATTS	FULL LOAD AMPS
0101	340	3.0	1700-1	1100	10.0	5590	1050	10.0
0102-1	370	3.0	1750	1250	11.0	5610	900	8.0
0120	340	3.0	1750-1	1100	10.0	5650	950	10.0
0121	370	3.25	1850	1250	11.0	6000	220	2.0
0122-1	370	3.25	1850-1	1100	10.0	6020	1200	11.5
0140	340	3.0	2200-1	1250	10.0	6060	1200	11.5
0160	340	3.0	2400-1	1250	10.0	6200	1600	13.0
0180	340	3.0	3820	1600	15.0	6250	360	2.3
0181	370	3.25	3880	1600	15.0	6280	360	4.0
0190	340	3.0	3940	1600	15.0	6293	1100	10.5
0191	370	3.25	4020	1600	15.0	6320	1400	12.0
0200	340	3.0	4030	1600	15.0	6331	1200	10.5
0220	340	3.0	4035	1600	15.0	6360	1250	12.0
0221	370	3.25	4250-1	400	4.0	6370	1300	13.0
0222-1	370	3.25	4260-1	1100	11.5	6400	1400	12.0
0800	400	4.0	4270-1	1100	11.5	6505	460	4.0
0850	400	4.0	4280-1	1100	11.5	6510	460	4.0
0870	400	4.0	4290-1	1100	11.5	6541-1	370	3.25
0890	400	4.0	4295-1	1100	11.5	6542-1	370	3.25
1000	400	4.0	5191	350	3.3	6571-1	370	3.25
1000-1	400	4.0	5200	1000	10.0	6581-1	370	3.25
1100	400	4.0	5220	1300	11.5	6582-1	370	3.25
1100-1	400	4.0	5240	1300	11.5	6620-1	400	4.0
1120	250	15.5	5260	1300	11.5	6640-1	400	4.0
1200	400	4.0	5265	460	4.4	6747-1	500	4.5
1200-1	400	4.0	5300	1150	10.0	6781-1	310	3.25
1600	660	6.0	5350	650	6.0	6798-1	515	4.5
1600-1	660	6.0	5360	390	4.0	6800	240	2.1
1620-1	660	6.0	5390	515	4.5	6810	300	3.0
1650	660	6.0	5400	300	3.0	6820	700	6.4
1650-1	660	6.0	5410	680	6.4	6830	700	6.4
1675-1	750	7.5	5450	1100	10.0	8600	360	3.2
1700	1250	11.0	5530	1100	10.0	9050	----	4.0



32188

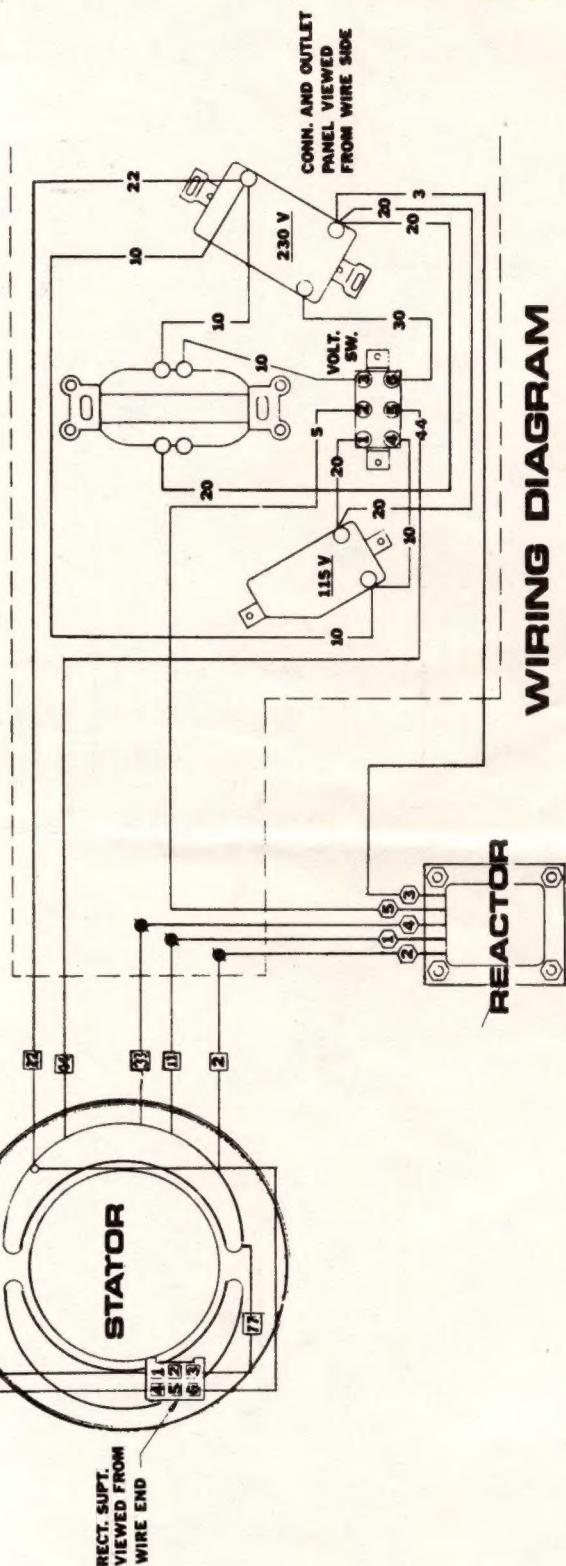
Item	Part No.	Req'd	Description
1	22-68-0140	1	Outlet Panel Front
2	23-33-0200	1	115V Outlet
3	23-33-0205	1	115V Outlet
4	23-33-0160	1	230V Outlet
5	23-66-0835	1	Switch
6	44-68-0090	2	Plug Button
7	06-81-4650	6	RHMS
9	06-55-1100	6	Hex. Nuts
10	06-81-8650	2	Sim RHMS
11	22-12-0070	1	Outlet Panel Back
12	22-56-0140	1	3/8 Straight Connector
13	06-75-2400	4	Taptite



34860

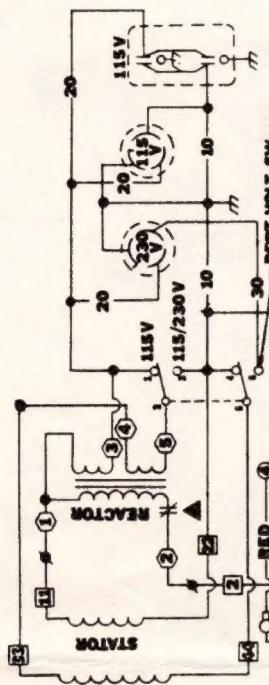
Item	Part No.	Req'd	Description
1	42-20-0260	1	Mounting Base
2	40-50-6900	4	Springs
3	96-75-0300	4	5/16-18x3/4 Lg. Hex. Hd. Capscrew
4	06-97-4100	9	5/16 Lockwasher
5	06-55-1980	9	5/16-18 Hex. Hd. Nut
6	06-75-0342	4	5/16-18x1-3/4 Lg. Hex. Hd. Capscrew
8	43-33-0208	1	Vibration Dampner
9	45-36-0430	1	Spacer
10	45-88-5261	1	5/16 Flatwasher
11	23-81-0190	1	Reactor Assembly
12	06-55 1100	4	No. 10-32 Lokut Hex. Nut

WIRING DIAGRAM

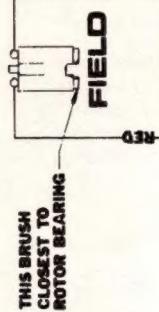


SCHEMATIC

115V. ONLY POSITION-FULL CAP.
AVAILABLE AT 115V. OUTLETS
115/230V. POSITION-HALF CAP.
AVAILABLE AT 115V. OUTLETS
OR FULL CAP. AVAILABLE AT
230V. OUTLET

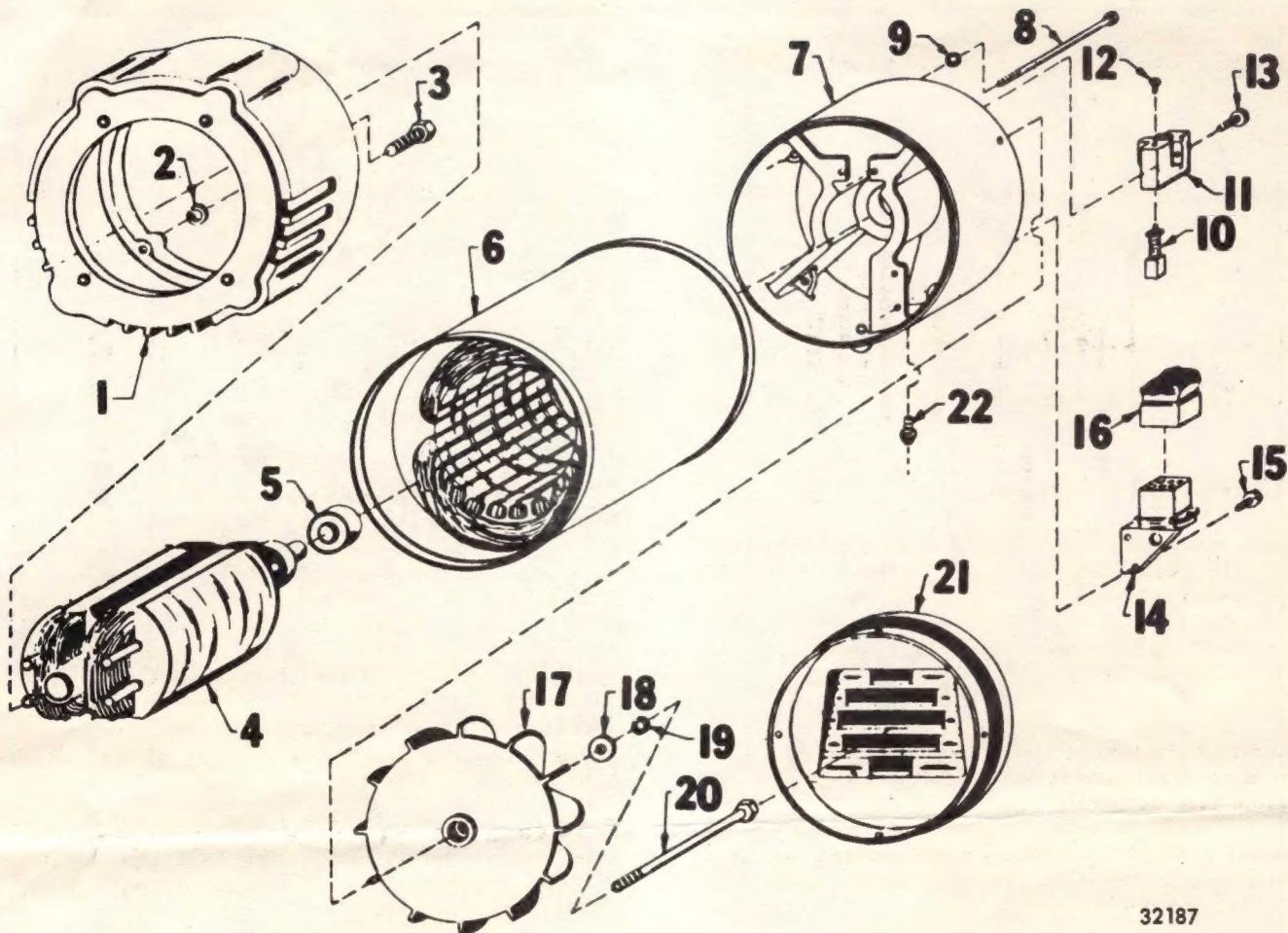


VOLTAGE SW.



RECT. SUPT.
VIEWED FROM
WIRE END

STATOR



32187

Item	Part No.	Req'd	Description
1	42-04-0360	1	Adaptor Housing
2	06-97-4125	4	3/8 Lockwasher
3	06-75-4500	4	3/8 - 16 x 1" Lg. Hex. Hd. Capscrew
4	23-40-0160	1	Rotor Assembly
5	02-04-1545	1	Bearing
6	23-58-042C	1	Stator Assembly
7	43-76-0171	1	Rear Bearing Carrier
8	06-75-0065	4	Indented Hex. Hd. Machine Screw
9	06-97-2200	4	#10 Shockproof Lockwasher, Int.
10	22-18-0340	2	Brush Assembly
11	22-20-0220	1	Brush Holder
12	06-81-8650	2	#6 - 32 x 1/4 Lg. Rd. Hd. Machine Sc. & Lockwasher
13	06-81-3640	2	#8 - 32 x 5/8 Lg. Taptite Screw
14	45-60-0300	1	Rectifier Support Assembly
15	01-81-0030	2	#10 - 32 x 3/8 Lg. Taptite Screw
16	23-38-2560	1	Rectifier Assembly
17	22-84-0400	1	Fan
18	45-88-5245	2	5/16 Flatwasher
19	06-97-4100	1	5/16 Lockwasher
20	06-75-0468	1	Hex. Hd. Capscrew
21	42-92-0161	1	Fan Cover
22	06-75-2400	3	#10 - 32 x 1/2 Lg. Taptite Screw

SPECIFICATIONS

ENGINE 7.00 H.P.

Type: 4 cycle, L head, single cylinder, $2\frac{3}{4}$ " bore, $2\frac{3}{8}$ " stroke, 16.79 cu. in. displacement, 7.00 H.P.

Cooling: Pressure air cooled.

Governor: Mechanical type preset.

Ignition: Flywheel magneto

Starting: Recoil
Choke; Manual

Oil System: Splash Lube, 2-3/4 pints

Fuel Tank: 1 gallon capacity

ALTERNATOR - 3000 WATT

Type: Revolving field two pole, singlephase, 115/230 volt, 60 cycle. Drip proof design, direct connected on tapered shaft.

Electrical: 115/230 volts at 27/13.5 amps

Rotor: Laminated electrical steel, pressed on shaft, sintered brass collection rings. Windings are precision semi-automatic wound.

Stator: Laminated electrical steel pressed into steel stator band. Precision wound, automatic tied coils, pressed end returns.

Bearing: Lifetime sealed ball bearing running in steel bearing insert.

Varnish: Class H Westinghouse double dip 7 hour cure cycle.

Insulation: Modified class H insulating system, DMD liners, heavy polythermaleze wire insulation. Dacron tie tape, modified fiber wedges.

Cooling: Centrifical blower directly connected to rotor shaft.

Paint Color: Metco Red.

Introduction

This alternator has been designed and manufactured to give years of trouble free service if operated and maintenance instructions are followed.

Installation

1. Uncrate and inspect for shipping damage. If unit is damaged, notify shipping firm immediately.

2. This model requires 2-3/4 pints of oil. Note: there are 2 pints to one quart. The weight of oil used is governed by the external temperature in which the alternator is used.

Summer - SAE 30
Winter - 5W 20

3. Gasoline - non-leaded regular.

4. Ventilation - Adequate ventilation should be provided for safe, efficient operation.

MAINTENANCE

1. Periodically (approximately every 200 operating hours) inspect the alternator brushes and clean the slip rings. Refer to exploded view of alternator.

To gain access to these parts, remove 3 screws (item 22) and the fan cover (item 21). Remove Hex. Hd. Mach. Screw (item 20) and fan (item 17). This will expose rectifier and brush holder. DO NOT START ALTERNATOR UNTIL ITEM 20 CAP SCREW IS SECURELY TIGHTENED. This item holds the rotor assembly to the engine shaft. Brushes which are chipped, cracked or worn to a length of less than $5/16$ " should be replaced.

2. To clean slip rings, polish with a piece of sandpaper while rotor is turning. DO NOT USE EMERY PAPER. Disconnect spark plug wire and turn engine with recoil starter.

After serviceing brushes and slip rings, reinstall the brushes, brush holder, fan and fan cover. Be sure to connect the red wire to the brush nearest the fan.

3. The alternator should be kept clean and reasonably dry.

ILLUSTRATED PARTS LIST

All replacement parts for the alternator are shown on the exploded view illustrations. Each part is identified with an index number which is keyed to the parts list. The index numbers are used solely for identification - not for ordering parts.

To save time - to make sure that you get the correct part - be sure to include the following information with your parts order:

1. Part name and part number (NOT the index number shown on the exploded view.)
2. The alternator model and serial number (found on the nameplate.)
3. Quantity of each part ordered.

NOTE: TO ORDER AN EXACT REPLACEMENT ENGINE, ORDER FROM M.E.T.CO. PART NO. 43-20-1800

